External Exposure to Fire Classification Report

Name of client:	Sika Services AG		
Product name:	Sikaplan® VG-12 on a substrate of mineral wool		
File no.:	PCA10846A	**NB no.**	0845
Date:	2022-12-21	**Revision no.:**	0
Pages:	4	**Encl.:**	0
Ref:	LIA / KTO		

Danish Institute of Fire and Security Technology
Jernholmen 12, DK-2650 Hvidovre
Phone: +45 36 34 90 00 · E-mail: dbi@dbigroup.dk · www.dbigroup.dk

Client information

Client: Sika Services AG

Address: Tüffenwies 16
8048 Zürich
Switzerland

The results relate only to the items tested. The report should only be reproduced in extenso - in extracts only with a written agreement with this institute.

1. Introduction

This classification report defines the classification assigned to the roof covering ”Sikaplan® VG-12“ in accordance with the procedures given in EN 13501-5:2016.

2. Details of roof covering

2.1 Nature and end use application

The roof covering ”Sikaplan® VG-12” is defined as a plastic and rubber sheet for roof waterproofing according to EN 13956 “Flexible sheets for waterproofing – Plastic and rubber sheets for roof waterproofing – Definitions and characteristics”.

Its classification is valid for the product that in the end use application is laid onto non-combustible end-use substrates, cf. 4.3.

2.2 Description

The roof covering “Sikaplan® VG-12” is fully described in the test report in support of the classification listed in 3.1.

3. Reports and test results in support of this classification

3.1 Reports

Name of laboratory	Name of client	Report ref. No	Test method	Date
DBI	Sika Services AG	PFA12013A	CEN/TS 1187 Test 2	2022-12-21

3.2 Test results

Test conditions: Loose laid

Test pitch: 30°

Substrate: Standard substrate of mineral wool with a measured density of 134 kg/m³.

Parameter	Criteria		Test results[a]					Compliance Y/N
	Mean	Max	Spe.1	Spe.2	Spe.3	Mean	Max	
Damaged length at 2 m/s – roof covering	≤ 0,550 m	≤ 0,800 m	**0.440**	**0.430**	**0.440**	**0.437**	**0.440**	**Y**
Damaged length at 2 m/s – substrate	≤ 0,550 m	≤ 0,800 m	**0.185**	**0.270**	**0.260**	**0.238**	**0.270**	**Y**
Damaged length at 4 m/s – roof covering	≤ 0,550 m	≤ 0,800 m	**0.450**	**0.435**	**0.430**	**0.438**	**0.450**	**Y**
Damaged length at 4 m/s – substrate	≤ 0,550 m	≤ 0,800 m	**0.205**	**0.265**	**0.280**	**0.250**	**0.280**	**Y**
[a] Not for extended application.								

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5:2016.

4.2 Classification

The roof covering "Sikaplan® VG-12 on a substrate of mineral wool" in relation to its external fire performance is classified: $B_{ROOF}(t2)$.

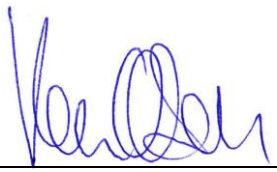
4.3 Field of application

This classification is valid for the following conditions:

- any non-combustible substrate with density equal to or greater than 100,5 kg/m³.

5. Limitations

This report does not represent type approval or certification of the product.



Ken Olesen
B.Sc.Chem.Eng.Hon.

Lina Ivar Andersen
B.Sc.Chem.Eng.Hon.

Sika Services AG
Tüffenwies 16
8048 Zürich
Switzerland

DBI
FIRE AND SECURITY

External Exposure to Fire Classification Report

Name of client:	Sika Services AG		
Product name:	Sikaplan® VG-12 an underlying layer of glass felt (120 g/m^2) on a substrate of expanded polystyrene (EPS)		
File no.:	PCA10846B	**NB no.**	0845
Date:	2023-01-18	**Revision no.:**	0
Pages:	4	**Encl.:**	0
Ref:	LIA / RED		

Danish Institute of Fire and Security Technology
Jernholmen 12, DK-2650 Hvidovre
Phone: +45 36 34 90 00 · E-mail: dbi@dbigroup.dk · www.dbigroup.dk

ilac-MRA DANAK TEST Reg.no.0012

Client information

Client: Sika Services AG

Address: Tüffenwies 16
8048 Zürich
Switzerland

The results relate only to the items tested. The report should only be reproduced in extenso - in extracts only with a written agreement with this institute.

1. Introduction

This classification report defines the classification assigned to the roof covering system ”Sikaplan® VG-12 on an underlying layer of glass felt (120 g/m^2)“ in accordance with the procedures given in EN 13501-5:2016.

2. Details of roof covering system

2.1 Nature and end use application

The roof covering system ”Sikaplan® VG-12 on an underlying layer of glass felt (120 g/m^2)” is defined as a plastic and rubber sheet for roof waterproofing according to EN 13956 “Flexible sheets for waterproofing – Plastic and rubber sheets for roof waterproofing – Definitions and characteristics”.

Its classification is valid for the system that in the end use application is laid onto combustible and non-combustible end-use substrates, cf. 4.3.

2.2 Description

The roof covering system ”Sikaplan® VG-12 on an underlying layer of glass felt (120 g/m^2)” is fully described in the test report in support of the classification listed in 3.1.

3. Reports and test results in support of this classification

3.1 Reports

Name of laboratory	Name of client	Report ref. No	Test method	Date
DBI	Sika Services AG	PFA12013C	CEN/TS 1187 Test 2	2023-01-11

Test results
Test conditions: Loose laid

Test pitch: 30°

Substrate: Standard substrate of expanded polystyrene (EPS) with a measured density of 16.3 kg/m^3.

Parameter	Criteria		Test results[a]					Compli-ance Y/N
	Mean	Max	Spe.1	Spe.2	Spe.3	Mean	Max	
Damaged length at 2 m/s – roof covering	≤ 0.550 m	≤ 0.800 m	**0.440**	**0.445**	**0.420**	**0.435**	**0.445**	**Y**
Damaged length at 2 m/s – substrate	≤ 0.550 m	≤ 0.800 m	**0.435**	**0.445**	**0.420**	**0.433**	**0.445**	**Y**
Damaged length at 4 m/s – roof covering	≤ 0.550 m	≤ 0.800 m	**0.405**	**0.435**	**0.415**	**0.418**	**0.435**	**Y**
Damaged length at 4 m/s – substrate	≤ 0.550 m	≤ 0.800 m	**0.415**	**0.455**	**0.435**	**0.435**	**0.455**	**Y**
[a] Not for extended application.								

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5:2016.

4.2 Classification

The roof covering system "Sikaplan® VG-12 an underlying layer of glass felt (120 g/m^2)" in relation to its external fire performance is classified: B_{ROOF}(t2).

4.3 Field of application

This classification is valid for the following conditions:

- any combustible and non-combustible substrate with density equal to or greater than 12.5 kg/m^3

5. Limitations

This report does not represent type approval or certification of the product.

Reidar Erland Dissing
Laboratory technician

Lina Ivar Andersen
B.Sc.Chem.Eng.Hon.

Sika Services AG
Tüffenwies 16
8048 Zürich
Switzerland

DBI
FIRE AND SECURITY

External Exposure to Fire Classification Report

Name of client:	Sika Services AG		
Product name:	Sikaplan® VG-12 on a substrate of Kingspan TR 26 (PIR)		
File no.:	PCA10846C	**NB no.**	0845
Date:	2023-01-18	**Revision no.:**	0
Pages:	4	**Encl.:**	0
Ref:	LIA / RED		

Danish Institute of Fire and Security Technology
Jernholmen 12, DK-2650 Hvidovre
Phone: +45 36 34 90 00 · E-mail: dbi@dbigroup.dk · www.dbigroup.dk

ilac-MRA DANAK TEST Reg.no.0012

Client information

Client: Sika Services AG

Address: Tüffenwies 16
8048 Zürich
Switzerland

The results relate only to the items tested. The report should only be reproduced in extenso - in extracts only with a written agreement with this institute.

1. Introduction

This classification report defines the classification assigned to the roof covering ”Sikaplan® VG-12“ in accordance with the procedures given in EN 13501-5:2016.

2. Details of roof covering

2.1 Nature and end use application

The roof covering ”Sikaplan® VG-12” is defined as a plastic and rubber sheet for roof waterproofing according to EN 13956 “Flexible sheets for waterproofing – Plastic and rubber sheets for roof waterproofing – Definitions and characteristics”.

Its classification is valid for the product that in the end use application is laid onto substrates of polyisocyanurate (PIR) foam, coated with composite aluminium foil, cf. 4.3.

2.2 Description

The roof covering system “Sikaplan® VG-12” is fully described in the test report in support of the classification listed in 3.1.

3. Reports and test results in support of this classification

3.1 Reports

Name of laboratory	Name of client	Report ref. No	Test method	Date
DBI	Sika Services AG	PFA12013D	CEN/TS 1187 Test 2	2023-01-11

3.2 Test results

Test conditions: Loose laid

Test pitch: 30°

Substrate: Non- standard substrate of 50 mm Kingspan TR 26 (polyisocyanurate (PIR) foam, coated with composite aluminium foil) with a measured weight per unit area of 1.85 kg/m^2.

Parameter	Criteria		Test results[a]					Compli-ance Y/N
	Mean	Max	Spe.1	Spe.2	Spe.3	Mean	Max	
Damaged length at 2 m/s – roof covering	≤ 0.550 m	≤ 0.800 m	**0.475**	**0.465**	**0.435**	**0.458**	**0.475**	**Y**
Damaged length at 2 m/s – substrate	≤ 0.550 m	≤ 0.800 m	**0.435**	**0.435**	**0.395**	**0.422**	**0.435**	**Y**
Damaged length at 4 m/s – roof covering	≤ 0.550 m	≤ 0.800 m	**0.440**	**0.440**	**0.460**	**0.447**	**0.460**	**Y**
Damaged length at 4 m/s – substrate	≤ 0.550 m	≤ 0.800 m	**0.400**	**0.385**	**0.410**	**0.398**	**0.410**	**Y**
[a] Not for extended application.								

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5:2016.

4.2 Classification

The roof covering "Sikaplan® VG-12" in relation to its external fire performance is classified: $B_{ROOF}(t2)$.

4.3 Field of application

This classification is valid for the following conditions:

- On any substrate of polyisocyanurate (PIR) foam, coated with composite aluminium foil, with a weight per unit area equal to or greater than 1.4 kg/m^2

5. Limitations

This report does not represent type approval or certification of the product.

Reidar Erland Dissing
Laboratory technician

Lina Ivar Andersen
B.Sc.Chem.Eng.Hon.

Sika Services AG
Tüffenwies 16
8048 Zürich
Switzerland

DBI
FIRE AND SECURITY

External Exposure to Fire Classification Report

Name of client:	Sika Services AG		
Product name:	Sikaplan® VG-12 on a substrate of wood particle board		
File no.:	PCA10846D	**NB no.**	0845
Date:	2023-01-18	**Revision no.:**	0
Pages:	4	**Encl.:**	0
Ref:	LIA / RED		

Danish Institute of Fire and Security Technology
Jernholmen 12, DK-2650 Hvidovre
Phone: +45 36 34 90 00 · E-mail: dbi@dbigroup.dk · www.dbigroup.dk

ilac-MRA DANAK TEST Reg.no.0012

Client information

Client: Sika Services AG

Address: Tüffenwies 16
8048 Zürich
Switzerland

The results relate only to the items tested. The report should only be reproduced in extenso - in extracts only with a written agreement with this institute.

1. Introduction

This classification report defines the classification assigned to the roof covering ”Sikaplan® VG-12“ in accordance with the procedures given in EN 13501-5:2016.

2. Details of roof covering

2.1 Nature and end use application

The roof covering ”Sikaplan® VG-12” is defined as a plastic and rubber sheet for roof waterproofing according to EN 13956 “Flexible sheets for waterproofing – Plastic and rubber sheets for roof waterproofing – Definitions and characteristics”.

Its classification is valid for the product that in the end use application is laid onto combustible and non-combustible end-use substrates, cf. 4.3.

2.2 Description

The roof covering “Sikaplan® VG-12” is fully described in the test report in support of the classification listed in 3.1.

3. Reports and test results in support of this classification

3.1 Reports

Name of laboratory	Name of client	Report ref. No	Test method	Date
DBI	Sika Services AG	PFA12013E	CEN/TS 1187 Test 2	2023-01-12

3.2 Test results

Test conditions: Loose laid

Test pitch: 30°

Substrate: Standard substrate of wood particle board with a measured density of 640 kg/m³.

Parameter	Criteria		Test results[a]					Compli-ance Y/N
	Mean	Max	Spe.1	Spe.2	Spe.3	Mean	Max	
Damaged length at 2 m/s – roof covering	≤ 0,550 m	≤ 0,800 m	**0,350**	**0,345**	**0,335**	**0,343**	**0,350**	**Y**
Damaged length at 2 m/s – substrate	≤ 0,550 m	≤ 0,800 m	**0,090**	**0,100**	**0,130**	**0,107**	**0,130**	**Y**
Damaged length at 4 m/s – roof covering	≤ 0,550 m	≤ 0,800 m	**0,315**	**0,315**	**0,325**	**0,318**	**0,325**	**Y**
Damaged length at 4 m/s – substrate	≤ 0,550 m	≤ 0,800 m	**0,135**	**0,130**	**0,120**	**0,128**	**0,135**	**Y**
[a] Not for extended application.								

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5:2016.

4.2 Classification

The roof covering "Sikaplan® VG-12" in relation to its external fire performance is classified: $B_{ROOF}(t2)$.

4.3 Field of application

This classification is valid for the following conditions:

- any combustible and non-combustible substrate with density equal to or greater than 480 kg/m³.

5. Limitations

This report does not represent type approval or certification of the product.

Reidar Erland Dissing
Laboratory technician

Lina Ivar Andersen
B.Sc.Chem.Eng.Hon.

Sika Services AG
Tüffenwies 16
8048 Zürich
Switzerland